SunBriteTV®

All-Weather Outdoor LCD Television

Operator's Manual

Model SB-5560HD

Revision 5560HD-120409

Dear SunBriteTV Customer:

Congratulations on the ownership of Model 5560HD all-weather outdoor LCD TV, and welcome to the family of satisfied SunBrite customers. You are in great company with thousands of homeowners and esteemed commercial facilities such as Yankee Stadium, Fenway Park, Disney World, and Sea World who have trusted us to deliver superior performance, lasting durability and the enjoyment of superb television viewing in the great outdoors.

With a traditional sense of customer satisfaction and attention to detail, our products are designed to withstand the rigors of the outdoor environment and provide our customers with many years of optimum viewing.

To ensure safety and long product life, please read the Important Safety Instructions and complete manual carefully before using the TV. If you have any questions about the installation procedures, please contact our qualified SunBriteTV Customer Care Center at 800.331.4626.

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions, and keep them for future use.

2) Heed all warnings and follow all instructions.

3) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

4) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

5) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

6) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where the cord exits from the apparatus.

7) Only use attachments/accessories specified by the manufacturer.

8) Use only the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

9) Unplug this apparatus during lightning storms.

10) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, does not operate normally, or has been dropped.

WARNING: TV must be plugged into a GFCI receptacle.
TV and GFCI RECEPTACLE MUST BE INSTALLED NO LESS THAN 5 FEET FROM ANY BODY OF WATER (SUCH AS POOL OR SPA). Check local building codes for proper installation guidelines.

WARNING: This unit is equipped with a 3-pin grounded plug. The plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician. Do not alter this plug, as this will defeat the safety feature.

WARNING: The main plug is used as the disconnect device and shall remain readily operable.

WARNING: This product shall be connected to a mains socket outlet with a protective earthing connection.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

NOTE TO CATV SYSTEM INSTALLER: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

WARNING: To reduce the risk of fire or electric shock, do not expose the inside of this apparatus to rain or moisture.
The inside of this apparatus shall not be exposed to dripping or splashing.

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org.

Disclaimer: *While SunBriteTV LLC intends to make this manual accurate and complete, we do not make claims that the information contained within covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this manual may change without notice.*

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Cleaning Instructions: See "Care of SunBriteTV" on page 32

Attachments: Do not use attachments not specifically recommended by the manufacturer. Use of improper attachments can result in accidents.

Power Source: SunBriteTV must operate on a power source indicated on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. When using the TV outdoors, you must use a GFI-protected AC outlet with "in-use" waterproof cover.

Installation: Do not place the product on an unstable cart, stand, tripod, table, or anywhere the unit is not permanently installed. Placing the product on an unstable place can cause the product to fall, resulting in potential serious personal injuries, as well as damage to the product.

Precautions when Transporting the TV: Carrying the television requires at least two people.

WARNING: DO NOT IMMERSE TELEVISION IN WATER OR OTHER LIQUID. DO NOT INSTALL TV WITHIN 5 FEET OF BODY OF WATER (SUCH AS SPA OR POOL).

CAUTION
RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). FROM THE TELEVISION OR EXTERNAL POWER PACK, EXCEPT WHERE SPECIFIED IN THE MANUAL. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

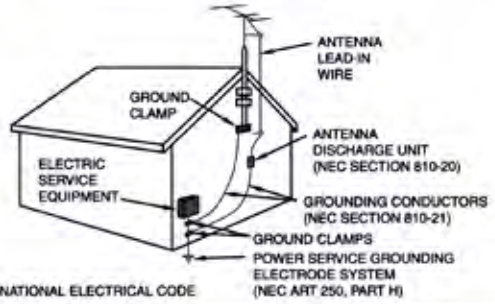
The lightning flash with arrow-head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

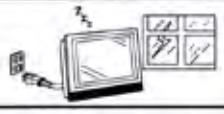
IMPORTANT SAFETY PRECAUTIONS

- If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

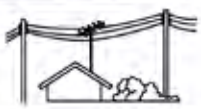
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD-IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC—NATIONAL ELECTRICAL CODE

- For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.



- An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.



FCC Statement

This equipment complies with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

FC Tested To Comply with FCC Standards
FOR HOME OR OFFICE USE

Ventilation: Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the television from overheating. Do not block ventilation slots and openings with objects, or install the television in a place where ventilation may be hindered. There must be at least 1.5" of space on all sides.

Power cord protection: The power cord must be routed properly to prevent people from stepping on it, or objects from resting on it. Check the cords at the plugs and product.

Power source: This product must operate on a power source specified on the specification label. If you are unsure of the type of power supply used in your home, consult your dealer or local power company.

Do not let metal pieces or objects of any kind fall into the television from ventilation holes. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts.

Do not mount SunBriteTV near a motor or transformer where strong magnetism is generated. Images on the television will become distorted and the color irregular.

Do not mount SunBriteTV near heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

Do not submerge SunBriteTV in water: The SunBriteTV will resist water exposure from normal rain, sprinklers, garden hoses, etc.; however, it is not designed to be submerged in water.

Do not pressure-wash SunBriteTV: SunBriteTV will resist water exposure from normal rain, sprinklers, garden hoses, etc.; However, it is not designed to withstand pressure washers, high-pressure water jets, or hurricane-type weather.

Do not service SunBriteTV yourself: Removal of the television screen cover may expose you to high voltage or other dangerous risks. Refer all servicing to a qualified service professional. Warranty will not be honored if you service the unit yourself.

Repair: If any of the following conditions occurs, unplug the power cord, and call a qualified service professional to perform repairs:

When power cord or plug is damaged.

When objects have fallen into the product.

If unit was submerged in water or pressure-washed.

When product does not operate properly as described in the operating instructions. Do not touch the controls other than as described in the operating instructions. Improper adjustments of controls not described in the instructions can cause damage, which can require extensive repair work by a qualified technician.

When the product has been dropped or damaged.

When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.

Replacement parts: In case the product needs replacement parts, make sure that the service person uses replacement parts provided by SunBriteTV. Use of unauthorized parts can result in fire, electric shock and/or other danger.

Safety checks: Upon completion of service or repair work, ask the service technician to perform safety checks to ensure that the product is in proper operating condition.

WARNING: To prevent personal injury and/or damage to the TV or personal property, use at least two people to install or move the TV.

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Supplied Accessories

Unpacking

After unpacking the SunBriteTV television, please make sure that the following items are included in the carton and that they are in good condition. If items are damaged or missing, contact your dealer immediately.

SunBriteTV LCD Television Model 5560HD
Remote Control with Batteries
Operator's Manual
Outdoor Dust Cover

Model 5560HD

Outdoor Dust Cover

Operator's Manual

Water-Resistant Wireless Remote Control

Choose a Location for the TV

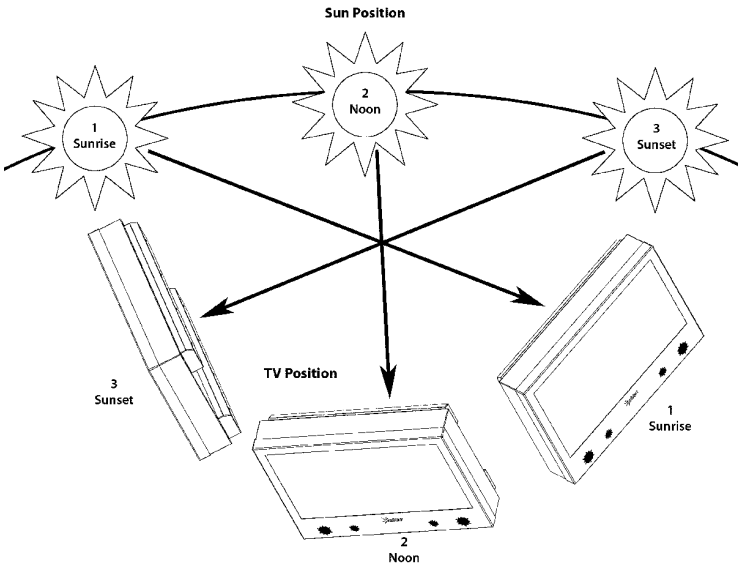
Important: The TV must be installed at least 5 feet from pool, spa, or other body of water.

The TV should be installed so the screen is not facing direct sunlight, or can be easily turned away from direct sunlight.

Ideal placement is in an area where the TV is shaded by trees, landscape and/or structures, or under a patio cover or gazebo.

If the sun shines directly on the screen for long periods of time, dark areas may develop on the screen. This is a normal reaction for the LCD panel, and will not cause damage to the screen. Either turn the screen away from the sun, or apply shade to the TV, and the dark areas will quickly disappear.

Important! To protect the life of the LCD screen, keep the dust cover on the TV when the TV is not in use.



WARNING: To prevent personal injury and/or damage to the TV or personal property, use at least two people to install or move the TV.

Rear Panel Connections

WARNING: Do not connect the power source before making connections.

Internal Connect Source

The Internal Connect Source allows you to easily connect to the Audio, Video, S-Video, SVGA, HDMI, Audio Out, RF, RS232, and 12 VDC connectors, and the IR emitter window. The Internal Connect Source is inside the Cable Cover located on the back of the unit (Figure 1).

1. Unscrew the three gray Thumb Screws (Figure 1), and pull the cover towards you.

2. Route the cables to the proper inputs, and place the cable cords over the Rubber Sealing Gasket (Figure 2).

Note: There is an Indentation on the Rubber Sealing Gasket (on the bottom portion of the right and left sides). Make sure cable cords ***are not placed on the Indentation.***

3. Close the cover (Figure 3).

4. Press firmly on the cover, and secure the Thumb Screws tightly (Figure 4).

Figure 1

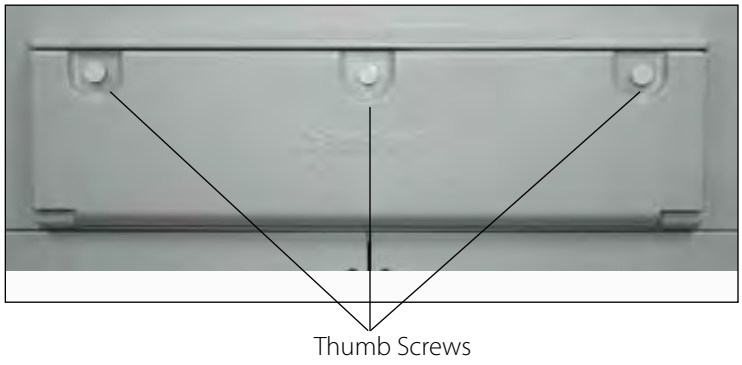
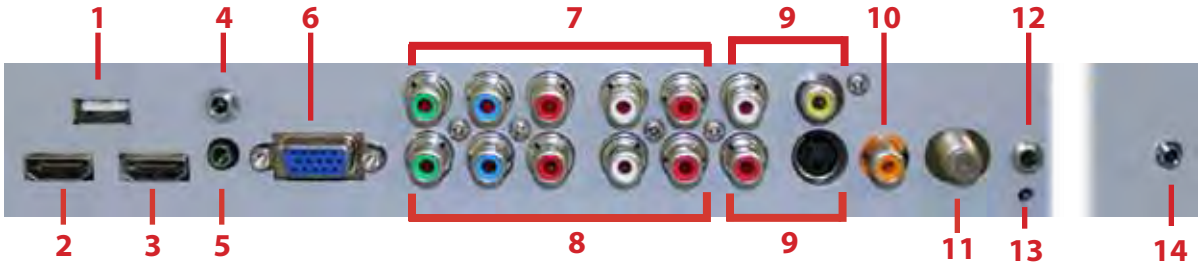


Figure 2

Figure 3

Figure 4

Press firmly on the cover, and secure the Thumb Screws tightly.



1. **SERVICE PORT** - This port is for factory service only...DO NOT USE
2. **HDMI 1 -** Connects to devices that use HDMI cables such as Blu-ray or HD DVD player or HD cable / satellite set-top box. This connection port receives pure digital audio and high definition signal through one single cable. This port also can accept a HDCP video device for video or PC for monitor display usage. Use the SOURCE button to select HDMI1 on your MAIN SOURCE to view this connection. Please note: when using HDMI, your sound signal must be PCM for the TV to decode digital audio. When using this source for PC display, you must connect the audio cable to VGA Stereo Input for audio.
3. **HDMI 2 -** Same as HDMI 1
4. **SERVICE PORT** - This pot is for factory service only...DO NOT USE
5. **VGA STEREO INPUT -** This connection port is for people who want to provide audio to the TV when using a PC or a DVI video device. Use a 3.5mm mini-jack audio cable (headphone jack) to provide audio for a HDCP enabled DVI video device or PCs with VGA or DVI connection.
6. **VGA -** This connection port connects to a PC for video using VGA cable. Be sure to connect your audio cable to the VGA Stereo input if you want sound out of the VGA video source. Use the SOURCE button to select VGA on your MAIN SOURCE to view this connection.
7. **COMPONENT 1 (Lower)** - This connection ports are for DVD players or satellite/cable set-top boxes that use component cables. From left to right, connect green, blue and red for video, and then connect white for left channel audio, red for right channel audio. Use the Source Button to select YPbPr1 to review this connection.
8. **COMPONENT 2 (Upper)** - his connection ports are for DVD players or satellite/cable set-top boxes that use component cables. From left to right, connect green, blue and red for video, and then connect white for left channel audio, red for right channel audio. Use the Source Button to select YPbPr2 to review this connection.
9. **AV 1** (CVBS or S-Video) - Connects to devices that use composite or s-video cables such as VCR or camcorder or video game consoles. Connect the video portion with either the yellow connector or the S-Video connector. Do NOT connect both video connectors. Use the SOURCE button to select AV1 (CVBS) on your MAIN SOURCE if you are using the yellow plug for video, use the SOURCE button to select AV1 (S-Video on your MAIN SOURCE if you are using the S-Video connector to view this connection.
10. **DIGITAL AUDIO OUT** - This connection port is used for sending out audio signals to other audio devices such as stereo/ surround sound receivers. The orange (SPDIF OUT) connector sends out either bit-stream or PCM digital sound signal to a home theater receiver with digital input.
11. **ATSC/NTSC/QAM –** This connection is for digital or analog cable without the cable box or over-the-airwave antennas. The tuner is a hybrid tuner that tunes to both analog and digital channels. This connection uses coaxial RF cable. For over- the airwave digital stations please check http://www.antennaweb.org.
12. **ANALOG AUDIO OUT (Variable) -** Used to connect headphones, stereo receivers and amplified speakers via a 3.5mm headphone jack.
13. **IR WINDOW** - For remote control using IR commands.
14. **RS232 -** For remote control using RS232 commands

Connection Descriptions:

Port Quality & Name	Port Picture	Cable Used & Resolution	Devices that use this Port
Best HDMI (Digital HD Capable)		HDMI 1080i, 720p, 480p, 480i	Blu-ray DVD Player, HD-DVD Player, High Definition Cable or Satellite Set-top Box, HDCP devices
Best/Fair ATSC/NTSC (Digital HD Capable)		Coaxial RF 1080i, 720p, 480p, 480i	Antenna or Digital Cable with out the cable box
Best VGA (HD Capable)		VGA 1980 x 1080 or lower	PC or MAC with VGA connection
Better COMPONENT 1 & 2 (HD Capable)		Component 1080i, 720p, 480p, 480i	DVD Player, Video Game Console, High Definition Cable or Satellite Set-top Box
Good COMPOSITE (Non-HD)		S-Video 480i only	Non High Definition Cable or Satellite Set-top Box, S-Video VCR
Fair COMPOSITE (Non-HD)		Composite 480i only	Non High Definition Cable or Satellite Set-top Box, VCR, Old Game Console, Camcorder

Cable Descriptions:

Cable Name	Cable Picture
HDMI	
Coaxial RF	
VGA	
Component	Red Green Blue
S-Video	
Composite	Yellow
3.5 mm Mini-jack	Green
RCA Audio	Red White
AC Power	
Coaxial SPDIF	

Switching Sources for Ports:

Model 5560HD offers several options when connecting your devices to the TV. The chart below will help you understand which source you switch to for each of the ports.

Port Picture	Cable Used	Source Name to Switch to
	HDMI or HDMI-DVI	HDMI 1 or HDMI 2
	COAXIAL RF	TV (CABLE / AIR)
	VGA	VGA
	YPBPR	YPBPR 1 or YPBPR 2
	S-VIDEO	AV 1 (S-VIDEO) or AV 2 (S-VIDEO)
	COMPOSITE	AV 1 (CBVS) or AV 2 (CVBS)

CONNECTING TO AN ANTENNA

Connecting to Digital Cable without Cable Box or Antenna

1. Make sure the power to the TV is turned off.
2. Connect the Coaxial RF cable from your antenna or digital cable to the ATSC/NTSC port off the back of the TV.
3. Turn on the TV.
4. Select TV (Air) for antenna or TV (Cable) for digital cable from either your remote control's source button or source button on the right side of the TV.
5. Use the On-Screen Display to scan for channels.

Connecting to Cable or Antenna

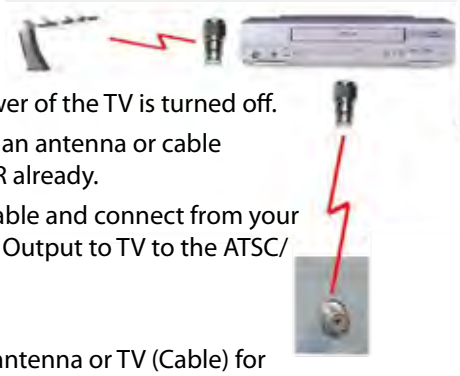
1. Make sure the power of the TV is turned off.
2. Connect the Coaxial RF cable from your antenna or cable to the ATSC/NTSC port off the back of the TV.
3. Turn on the TV.
4. Select TV (Air) for antenna or TV (Cable) for cable from either your remote control's source button or source button on the right side of the TV.
5. Use the On Screen Display to scan for channels.

Please Note :

1. Not all broadcasts are in High Definition (HD). Please refer to your local broadcasting stations for more information.
2. The TV's tuner is designed for HDTV therefore requires a stronger signal than normal TVs. If you cannot achieve that signal level with your antenna or cable, the TV might lose picture or sound.

CONNECTING TO AN ANTENNA--(Continued)

Connecting to Cable or Antenna through VCR



1. Make sure the power of the TV is turned off.
2. Make sure there is an antenna or cable connection to the VCR already.
3. Use a Coaxial RF cable and connect from your VCR's Antenna Out or Output to TV to the ATSC/ NTSC port of your TV.
4. Turn on the TV.
5. Select TV (Air) for antenna or TV (Cable) for digital cable from either your remote control's source button or source button on the TV.
6. Use the On-Screen Display to scan for channels.

Please Note :

1. Some VCRs must be turned On before its output will have a signal to the TV. Please consult your VCR manual for further reference.
2. Not all broadcasts are in High Definition (HD). Please refer to your local broadcasting stations for more information.
3. The MODEL 5560HD's tuner is designed for HDTV therefore requires a stronger signal than normal TVs. If you cannot achieve that signal level with your antenna or cable, the TV might lose picture or sound.
4. This TV will turn off automatically if there's no signal present for more than 15 minutes.

CONNECTING TO A DVD PLAYER

Connecting with HDMI (Best)

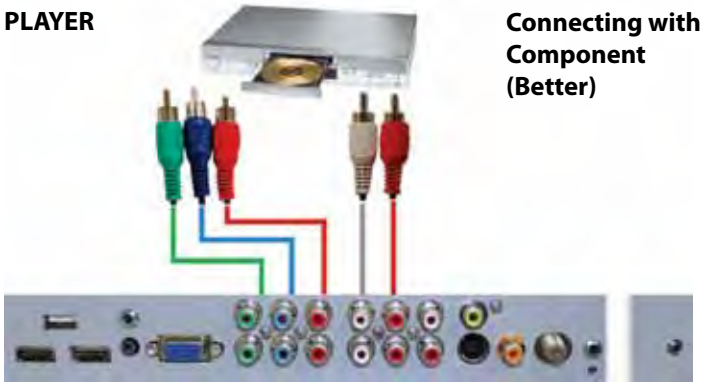
1. Make sure the power of the TV and your DVD player is turned off.
2. Connect a HDMI cable to the HDMI port of your DVD player and the other end to the HDMI port off the back of your TV.
3. Turn on the TV and your DVD player.
4. Use the remote control's source button or the source button on the TV to switch to HDMI.

Please Note :
Refer to the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.

Please Note :

1. Refer to the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.
2. This TV does not decode Bit stream digital audio, so make sure the DVD is setup for PCM digital audio through HDMI.
3. If HDMI 1 is occupied, use HDMI 2 as your connection port.

Connecting with Component (Better)



1. Make sure the power of TV and your DVD player is turned off.
2. With a Component Cable, connect the green connector to the DVD player and Component 1's green connector port on the TV.
3. Connect the blue color connector to your DVD player and Component 1's blue connector port on the TV.
4. Connect the red color connector to both your DVD player and Component 1's red connector port on the TV.
5. With an RCA Audio Cable, connect the white color connector to both your DVD player and Component 1's white connector port on the TV.
6. Connect the red color connector to both your DVD player and
7. Component 1's red connector port on the TV.
8. Turn on the TV and your DVD player. Use the remote control's source button or the source button on the TV to switch to YPbPr1.

Please Note :

1. If Component 1 is already occupied, please use Component 2 as your connection port and switch to source YPbPr2.
2. Refer to the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.
3. This TV will turn off automatically if there's no signal present for more than 15 minutes.

CONNECTING TO A DVD PLAYER (Continued)

Connecting with S-Video (fair)

1. Make sure the power of the TV and your DVD player is turned off.
2. Obtain an S-Video Cable. Connect the S-Video connector to both your DVD player and Composite's S-Video connector port off the back of your MODEL 5560HD.
3. Obtain a RCA Audio Cable. Connect the white color connector to both your DVD player and Composite's white connector port off the back of your MODEL 5560HD.
4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
5. Turn on the TV and your DVD player.
6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (S-Video).

Connecting with Composite (Fair)

1. Make sure the power of the TV and your DVD player is turned off.
2. Obtain a Yellow Video Cable. Connect the Yellow Video connector to both your DVD player and Composite's Yellow Video connector port off the back of your TV.
3. Obtain a RCA Audio Cable. Connect the white color connector to both your DVD player and Composite's white connector port off the back of your TV.
4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
5. Turn on the TV and your DVD player.
6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (CVBS).

Please note:

1. If AV 1 is already occupied, use AV2, as your connection port, and switch source to AV 2 (S-Video)
2. Reference the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.
3. This TV will turn off automatically if there's no signal present for more than 15 minutes.

CONNECTING TO A SATELLITE OR CABLE SET-TOP BOX

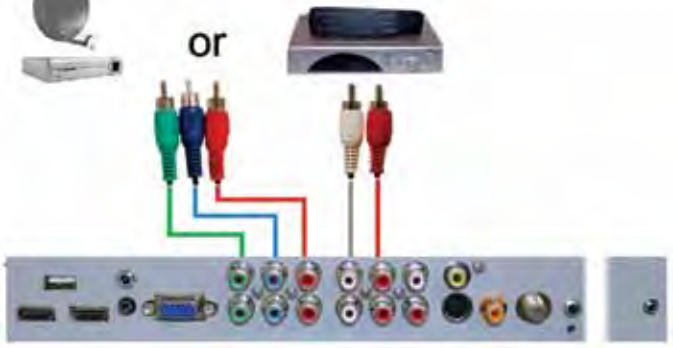
Connecting with HDMI (Best)

1. Make sure the power of the TV and your set-top box is turned off.
2. Connect a HDMI cable to the HDMI output of your set-top box and the other end to the HDMI port off the back of your TV.
3. Turn on the TV and your set-top box.
4. Use the remote control's source button or the source button on the right side of the TV to switch to HDMI 1.

Please Note :

1. Refer to the set-top box's manual, to make sure the set-top box is configured to output correctly to the TV.
2. If HDMI 1 is already occupied, use HDMI 1 as your connection port and switch source to HDMI 2.
3. SunBriteTV's MODEL 5560HD supports SONY's universal remote code. Please look up SONY's codes in your universal remote's hand book.
4. This TV will turn off automatically if there's no signal present for more than 15 minutes.

Connecting with Component (Better)



1. Make sure the power of TV and your set-top box is turned off.
2. Obtain a Component Cable. Connect the green color connector to both your set-top box and Component 1's green connector port off the back of your TV.
3. Connect the blue color connector to both your set-top box and Component 1's blue connector port off the back of your TV.
4. Connect the red color connector to both your set-top box and Component 1's red connector port off the back of your TV.
5. Obtain a RCA Audio Cable. Connect the white color connector to both your set-top box and Component 1's white connector port off the back of your TV to the right side of your green, blue, red component connection.
6. Connect the red color connector to both your set-top box and Component 1's red connector port off the back of your TV to the right side of your green, blue, red component connection.
7. Turn on the TV and your set-top box.
8. Use the remote control's source button or the source button on the TV to switch to YPbPr1.

Please Note :

1. If Component 1 is already occupied, please use Component 2 is your connection port and switch to source YPbPr2.
2. Please refer to the set-top box's manual to make sure the set-top box is configured to output correctly to the TV.
3. SunBriteTV's MODEL 5560HD supports SONY's universal remote code. Please look up SONY's codes in your universal remote's hand book.
4. This TV will turn off automatically if there's no signal present for more than 15 minutes.

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CONNECTING TO A SATELLITE OR CABLE SET-TOP BOX (Continued)

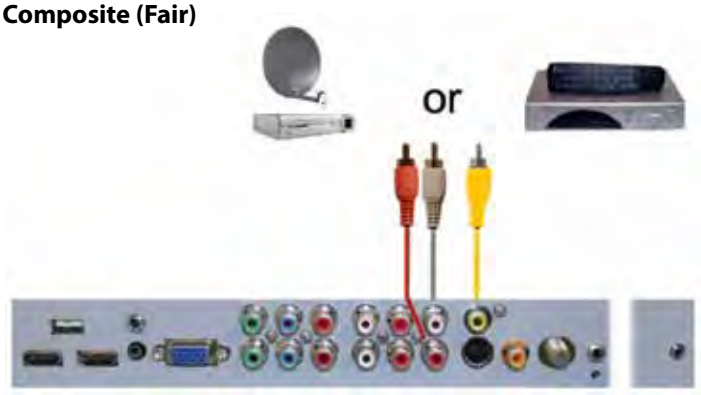
Connecting with S-Video (Fair)

1. Make sure the power of the TV and your DVD player is turned off.
2. Obtain an S-Video Cable. Connect the S-Video connector to both your DVD player and Composite's S-Video connector port off the back of your MODEL 5560HD.
3. Obtain a RCA Audio Cable. Connect the white color connector to both your DVD player and Composite's white connector port off the back of your MODEL 5560HD.
4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
5. Turn on the TV and your DVD player.
6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (S-Video).

Please Note :

1. If AV 1 is already occupied, use AV 2 as your connection port and switch source to AV 2 (S-Video).
2. Refer to the set-top box's manual to make sure the set-top box is configured to output correctly to the TV.
3. SunBriteTV's MODEL 5560HD supports SONY's universal remote code. Please look up SONY's codes in your universal remote's hand book.
4. This TV will turn off automatically if there's no signal present for more than 15 minutes.

Connecting with Composite (Fair)



1. Make sure the power of the TV and your DVD player is turned off.
2. Connect a Yellow Video connector to both your DVD player and Composite's Yellow Video connector port off the back of your TV.
3. Connect a white color connector to both your DVD player and Composite's white connector port off the back of your TV.
4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
5. Turn on the TV and your DVD player.
6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (CVBS).

Please Note :

1. If AV 1 is already occupied, use AV 2 as your connection port and switch source to AV 2 (S-Video).
2. Refer to the set-top box's manual to make sure the set-top box is configured to output correctly to the TV.
3. SunBriteTV's MODEL 5560HD supports SONY's universal remote code. Please look up SONY's codes in your universal remote's hand book.
4. This TV will turn off automatically if there's no signal present for more than 15 minutes.

CONNECTING TO AN EXTERNAL AMPLIFIER OR AMPLIFIED SPEAKERS

Connecting with Coaxial SPDIF Digital (Best)

1. Make sure the power of the TV and your receiver is turned off.
2. Obtain a Coaxial SPDIF cable, connect it to your receiver's coaxial SPDIF digital input and the Coaxial SPDIF connection on the LINE OUT port off the back of the TV.
3. Turn on the TV and your receiver.

Please Note :

1. If you want pure digital stream for your receiver to decode, you must also configure the TV's OSD Sound->Digital Audio Out function. Make sure the option is on Bit Stream.
2. If your receiver is making static noises when receiving Bit Stream, you must use the PCM option instead.
3. Refer to the receiver's manual to make sure the receiver is configured to receive signals correctly from the TV

Connecting with RCA Audio Analog (Good)

1. Make sure the power of the TV and your receiver is turned off.
2. Obtain a 3.5mm stereo/audio cable (if your amplifier audio connection requires RCA audio out jacks you will need to obtain an 1/8" Stereo Mini Plug to RCA adapter cable). Connect it to your receiver's audio input connection and the 3.5mm stereo/audio connection on the Analog Audio port on the back of the TV.
3. Turn on the TV and your receiver.

Please Note :

1. If you want pure digital stream for your receiver to decode, you must also configure the TV's OSD Sound->Digital Audio Out function. Make sure the option is on Bit Stream.
2. If your receiver is making static noises when receiving Bit
3. Stream, you must use the PCM option instead.
4. Refer to the receiver's manual to make sure the receiver is configured to receive signals correctly from the TV

CONNECTING TO A PC

Connecting with DVI Digital (Best)

1. Make sure the power of the TV and your receiver is turned off.
2. Obtain a HDMI to DVI conversion cable; connect the DVI side of the conversion cable to the DVI output of your PC, and the HDMI side of the conversion cable to the HDMI port off the back of TV.
3. Obtain a 3.5 mm Mini-jack, connect to the audio out of your PC and the other end to the VGA Stereo Input Port.
4. Turn on the power to the TV and the PC.
5. From the remote control's source button, or the Source button from the TVs panel, switch to HDMI.

Please Note :

1. For the best picture, set your PC resolution to 1920 x 1080 at 60 Hz. Refer to the PC or graphic card manual for further instructions on how to set your resolution and refresh rate.
2. Refer to your PC manual for video output requirements of the video card.
3. The TV will turn off automatically if there's no signal present for more than 15 minutes.
4. If HDMI 1 is already occupied, use HDMI 2 as your connection port, and switch source to HDMI 2.

Continued on next page

CONNECTING TO A PC (Continued)

Connecting with VGA Analog (Good)

1. Make sure the power of the TV and your PC is turned off.
2. Obtain a 15-pin D-Sub VGA cable, connect to the VGA output of your PC and the other end to the VGA port off the back of your TV.
3. Obtain a 3.5 mm Mini-jack, connect to the audio out of your PC and the other end to the VGA Stereo Input port.
4. Turn on the power of the TV and your PC.
5. Use the remote control's source button or the source button the TV to switch to VGA.

Please Note :

1. For the best results, please set your PC resolution to
2. 1920 x 1080at 60 Hz. Refer to the PC or graphic card's manual for further instructions on how to set your resolution and refresh rate.
3. Refer to your PC manual for video output requirements of the video card.
4. The VGA port of the TV features a power saving mode which will automatically turn off the TV if there is no signal provided for more than 15 minutes.

Connecting the Power Cord

WARNING:
TV AND GFCI RECEPTACLE MUST BE INSTALLED AT LEAST 5 FEET AWAY FROM STANDING WATER , SUCH AS (BUT NOT LIMITED TO) A POOL OR SPA.
Connect the power cord after you have made connections to your video equipment.

Connect the Power Cord to a GFCI-protected AC outlet with "in-use" waterproof cover.

Warning: TV must be installed at least 5 feet away from standing water, such as (but not limited to) a pool or spa.

Back Panel

Power	Turns TV on/off.
Menu	Displays the On-Screen Display (OSD) menu. In OSD menu, press key to return to pre-phase.
Vol+ /Vol-	Adjusts volume. In OSD menu, both keys are used to navigate within menu. Vol+/Vol- is used to select the highlighted options.
CH+/CH-	Adjusts channels. In OSD menu, both keys are used to navigate within the menu.
Source	Press to change the input sources.

ON – Powers the TV On.

OFF – Powers the TV Off.

0~9 – Sets the channels.

Dash (-) – Inserts the dash for selecting digital channels directly.

R – Returns to the previous channel.

FREEZE – Freezes the TV picture. CC – Cycles between different closed captioning modes.

SLEEP – Sets the Sleep timer.

CC– Selects Closed Caption.

V+ – Functions the Volume Up and Menu Right.

V- – Functions the Volume Down and Menu Left.

MUTE – Mutes the TVs Audio.

MENU – Opens / Exits the TV menu.

CH+ – Functions the Channel Up and Menu Up.

CH- – Functions the Channel Down and Menu Down.

MTS – Selects stereo, mono, or second audio programming.

SRS – Sets Surround Sound.

DNR – Enables the Digital Noise Reduction on the TV.

ADD/Del – Adds or deletes the current channel.

CH Lock – Locks the current channel you are on, so that kids cannot view the locked channel unless unlocked by a password. You will also need to input a password when locking the channel.

↑ / ↓ / ← / → / – Allow you to navigate inside the OSD menu. They also function as CH+/- for digital channels in the tuner.

↵ **(Enter)** – Allows you to select functions inside the OSD menu, acts as the Enter button for OSD menu for changing channels.

SOUND – Selects various preset sound settings.

EXIT – Allows you to quit from the OSD menu..

PICTURE – Selects various preset picture settings.

GUIDE – Opens the current digital channel information guide.

SOURCE – Cycles between different inputs of the TV.

INFO – Shows current channel information, display input and resolution.

SHIFT – Used with the 0-9 numeric pad to select inputs.

ASPECT – Changes the TV between different display modes.

FAVORITE ▲/▼ – Changes the channel up or down from you Favorite channel list.

FAVORITE ADD / DEL – Adds or deletes the current channel from the favorites channel list.

Picture In Picture/Picture On Picture (PIP and POP) Functions

(Note: PIP functions are not supported on this model)

AUDIO – Switches Audio from the TV and PIP or POP windows.

VIDEO – Switches video from the PIP window to the main screen.

SOURCE – Changes the input source of the PIP window and POP window.

ON/OFF – Turns on or off the PIP and POP window.

SIZE – Changes size of the PIP window.

POS – Changes the position of the PIP window.

Remote Control Guide

This remote control follows Sony's TV remote codes with discrete on/off and input select. Direct TV code is 10,000

About the Water-Resistant Remote Control

The SunBriteTV® Water-Resistant Remote Controller is engineered to give you many years of service.

"Water-resistant" means that the remote control can be in water for short periods of time without damaging the internal workings of the unit. It can be left in the rain, and even dropped in water, as long as it is retrieved quickly. ***The remote control should not be left floating in water.***

The functionality of the remote control is under warranty for one year. If the remote control malfunctions within the one-year warranty period, replace the batteries with new long-life alkaline batteries.

If the problem is not solved with new batteries, contact the SunBriteTV Customer Care Center. SunBriteTV will repair or replace the remote control at SunBriteTV's option.

If you have a warranty claim, contact the SunBriteTV Customer Care Center for further instructions.

800.331.4626
www.sunbritetv.com

On-Screen Display Controls

Via Remote Control

In order to adjust most of the options inside the On Screen Display (OSD), the picture below shows all the buttons used on the remote control.

– This button functions as up direction in the OSD.

– This button functions as down direction in the OSD.

– This button functions as left direction in the OSD.

– This button functions as right direction in the OSD.

– This button changes the channel in conjunction with the number pad and also functions as enter for selecting options in the OSD.

This button opens the OSD and also exits the OSD by going to the previous level of the OSD.

This button exits the OSD entirely.

Via the TV's Side Panel Buttons

In order to provide more than one type of OSD control buttons, the side panel's buttons have also been made functional for adjusting the OSD.

MENU – This button opens the OSD.

CH(▲) – This button changes the channel to a higher number and also functions as up direction in the OSD.

CH(▼) – This button changes the channel to a lower number and also functions as down direction in the OSD.

VOL(+) – This button decreases the volume and functions as left direction in the OSD. It also is used to select the highlighted options.

VOL(-) – This button decreases the volume and functions as right direction in the OSD.

On-Screen Display Menu

Your TV has been factory-set to instantly enjoy your programming. In the event you turn on the TV and get the message, "Please run Channel Auto Scan," press your remote's Menu button, Press the Channel function and press Auto Scan.

Picture: This function changes the picture settings for all ports, such as tint, contrast, sharpness and dynamic noise reduction.	**Audio:** This menu manages the audio settings such as Bass, Treble, Balance, AVC, SPDIF, Audio Language, etc.	**Time:** This menu manages the time functions such as Sleep Timer, Time Zone, Daylight Saving Time, and Clock.	**Setup:** This menu manages Language, Transparency, Zoom Mode, Noise Reduction, Closed Caption, etc.	**Lock:** This menu manages parental controls.	**Channel:** This menu manages Channel functions such as scanning channels, editing channels, checking signal strength, etc.

Adjusting On-Screen Displays – Picture Menu

Picture Menu

From the PICTURE menu you can adjust PICTURE MODE, CONTRAST, BRIGHTNESS, COLOR, TINT SHARPRESS, COLOR MODE.

1. Press ▼▲ buttons to move the cursor to the item to be selected.
2. Press ◀ ▶ buttons to make the desired adjustments.
3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

Picture Menu

Picture Mode

Press ▼▲ buttons to Picture Mode, then use ◀ ▶ to adjust the Picture Mode such as Personal/Standard/ Dynamic/Soft.

Contrast

Press ▼▲ buttons to Contrast, then use ◀ ▶ to adjust the contrast of the picture.

Brightness

Press ▼▲ buttons to Brightness, and use ◀ ▶ to adjust the brightness of the picture.

Color

Press ▼▲ button to Color, then use ◀ ▶ to adjust the color saturation.

Tint

Press ▼▲ button to Tint, then use ◀ ▶ to adjust the tint of picture.
This function is available in the NTSC, which is one of the color systems.

Sharpness

Press ▼▲ buttons to Sharpness, then use ◀ ▶ to adjust the sharpness level of picture.

Color mode

Press ▼▲ buttons to Color Mode, then use ◀ ▶ to adjust the color mode of picture, such as Cool, Normal and Warm

Adjusting On-Screen Displays – Audio Menu

Audio Menu

1. Press ▼▲ buttons to move the cursor to the item to be selected.
2. Press ◀ ▶ buttons to make the desired adjustments.
3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

Sound Mode

Sound Mode
Allows you to you choose your sound preferences.
Press ▼▲ buttons to Sound Mode, then use ◀ ▶ to adjust the Sound Mode such as Personal/Standard/ Music/Movie.

Bass
Press ▼▲ buttons and then use ◀ ▶ button to increase or decrease the level of the Bass response.

Treble
Press ▼▲ buttons and then use ◀ ▶ buttons to increase or decrease the level of the Treble sounds.

Balance
Pressd ▼▲ buttons and then use ◀ ▶ buttons to adjust the audio output level between Left and Right Speakers.

Surround
Surround Sound is not supported on this model.

AVC
Press ▼▲ buttons and then use ◀ ▶ buttons to select AVC On or Off.

SPDIF
Press ▼▲ buttons and then use ◀ ▶ buttons to select SPDIF Type, such as PCM and RAM.

Audio Language
Press ▼▲ buttons to select one of the audio languages such as English/French/Spanish.

The language code must be programmed for this option to be available. If there is no selection it has not been programmed for this model.

Note: SPDIF Type and Audio Language are available only in DTV.

Adjusting On-Screen Displays – Time Menu

Time Menu

1. Press ▼▲ buttons to move the cursor to the item to be selected.
2. Press ▶ buttons to make the desired adjustments.
3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

Time Menu

Sleep Timer
Press ▼▲ buttons to Sleep Timer, then use ◀ ▶ buttons to select the sleep timer. The options are: Off; 5Min; 10Min; 15Min; 30Min; 45Min; 60Min; 90Min; 120Min; 180Min; 240Min.

Time Zone
Press ▼▲ buttons to Time Zone, then use ◀ ▶ buttons to select the correct time zone. The options are: Alaska; Hawaii; Pacific; Mountain; Central; Eastern.

Daylight Saving Time
Press ▼▲ buttons and then use ◀ ▶ buttons to select Daylight Saving Time ON or OFF.
When Daylight Saving Time is ON, the clocks are set one hour ahead of local standard time.

Clock
The time is decoded from the digital signal and displayed (such as DTV,HDMI)
This item is available only in English.

Adjusting On-Screen Displays – Setup Menu

Setup Menu

1. Press ▼▲ buttons to move the cursor to the item to be selected.
2. Press ◀ ▶ buttons to make the desired adjustments.
3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

Setup Menu

Menu language
Press ▼▲ buttons to Menu Language, then use ◀ ▶ buttons to select menu language, the options are English / French / Spanish.

Transparency
Press ▼▲ buttons to Transparency, then use ◀ ▶ buttons to select Transparency ON or OFF.

Zoom Mode
Press ▼▲ buttons to Zoom Mode, then use ◀ ▶ buttons to select current zoom mode, the options are Normal / Wide / Zoom / Cinema.

Noise Reduction
Press ▼▲ buttons to Noise Reduction, then use ◀ ▶ buttons to select current noise reduction level, the options are off / Weak / Middle / Strong.

Advanced
Press ▼▲ buttons to Advanced, then press ▶ button to enter the Advanced Sub Menu shown below
Note: This item is only available in VGA source input.

Advanced Sub Menu

H-Pos
Press ▼▲ buttons and then use ◀ ▶ adjust the horizontal position of the picture (this function is to adjust the picture to Left/Right as to your preference).

V-Pos
Press ▼▲ buttons and then use ◀ ▶ adjust the vertical position of the picture (to adjust the picture to Left/Right as to your preference).

Clock
Press ▼▲ buttons and then use ◀ ▶ to adjust the clock of the picture. (This function is to minimize any vertical bars or stripes visible on the background screen. The horizontal screen size will also change.

Phase
Press ▼▲ buttons and then use ◀ ▶ to adjust the phase of the picture. (This function allows you to remove any horizontal noise and to sharpen the image of characters).

Auto
Press ▼▲ buttons and then press OK button to perform the Auto Adjust function that automatically adjusts the available options for the best viewing configuration.

Closed Caption

From the Setup Menu, press ▼▲ buttons to Closed Caption, then press ▶ button to enter the Closed Caption submenu list shown below.

Closed Caption Submenu

Basic Selection

Press ▼▲ buttons and then use ◀ ▶ buttons to select current zoom mode, the options are CC1 / CC2 / CC3 / CC4 / TEXT1 / TEXT2 / TEXT3 / TEXT4.

Advanced selection

Press ▼▲ buttons and then use ◀ ▶ buttons to select current zoom mode, the options are Service1 / Service 2 / Service 3 / Service 4 / Service 5 / Service 6.

Option

Press the ▶ button to enter the submenu list shown below.

Closed Caption/OptionSub-Menu

Mode: Press ▼▲ keys to select either Default and Custom. If you set Automatic, the other choices are disabled and can't be adjusted.

Font Style: press ◀ ▶ keys to select one of the Defaults and from Font0 to Font7.

Font Size: press ◀ ▶ to select one of Default / Normal / Large / Small.

Font Edge Style: press ◀ ▶ keys to select one of Default / None / Raised / Depressed / Uniform / Left Shadow / Right Shadow.

Font Edge Color: press ◀ ▶ keys to select one of Default / Black / White / Red / Green / Blue / Yellow / Magenta / Cyan.

FG Color: press ◀ ▶ keys to select one of Default / White / Black / Red / Green / Blue / Yellow / Magenta / Cyan.

BG Color: press ◀ ▶ keys to select one of Default / Black / White / Red / Green / Blue / Yellow / Magenta / Cyan.

FG Opacity: press ◀ ▶ to select one of Default / Solid / Flashing / Translucent / Transparent.

BG Opacity: press ◀ ▶ to select one of Default / Solid / Flashing / Translucent /Transparent.

XVS Submenu

XVS (Dynamic Luminance Control)

From the Setup Menu, press ▼▲ buttons to XVS, to enter the XVS menu. Use the ◀ ▶ buttons to select ON or OFF.

Lock Menu

Press ▼▲ buttons to move the cursor to the Enter Password selection.

Press "Enter Password" to enter the password. (The default password is 0000.)

To change the Password, press the ▶ button to enter the Lock Menu submenu

Lock Menu Sub-Menu

Change password
Press ▶ button to enter the submenu. Once there, you can enter the new password and confirm it. The password will be changed.

Note: If you change the password, write down the new password, and keep it in a safe place

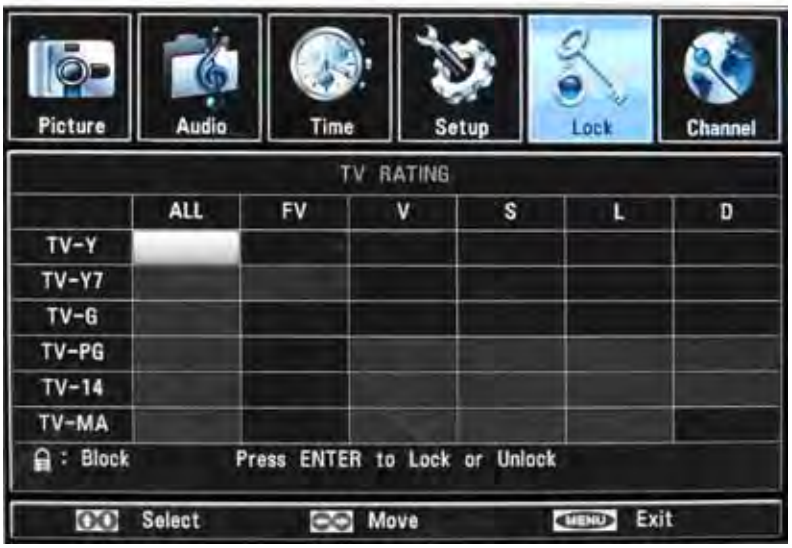
System Lock
Press ▼▲ buttons and then use ◀ ▶ buttons to select system lock ON or OFF. When system lock is OFF, the item choices are: US / Canada / RRT setting. Reset RRT will be grayed

US
Press the ▶ button to enter the submenu list to set the US rating functions. (US Menu is on the next page.)

US Menu

From the US Menu, press ▼▲ buttons to the TV function. Press ▶ button to enter the submenu shown below.

TV Menu



TV-Y: For all children
TV-Y7: For children above 7
TV-G: For anyone
TV-PG: Children can watch with guardian
TV-14: Need parent guide
TV-MA: Only for adult
ALL: Select all functions above
FV: Fantasy Violence
L: Language (abusive, sexual)
S: Sexual
V: Violence
D: Dialog (sexual)

Us Menu

MPAA
From the Us Menu, press ▼▲buttons and use ◀ ▶ buttons to select one of N/A / G / PG / PG-13 / R / NC-17 / X.

Lock Menu Sub-Menu

Canada
Press the ▶ button to enter the submenu for the Canadian rating functions.

Canada Menu

Canada English
Press the ◀ ▶ button to select one of E / C / C8+ / G / PG / 14+ / 18+.

Canada French
Press the ◀ ▶ button to select one of E / G / 8ans+ / 13ans+ / 16ans+ / 18ans+.

Channel Menu

1. Press ▼▲ buttons to move the cursor to the item to be selected.
2. Press ◀ ▶ buttons to make the desired adjustments.
3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

Channel Menu
The CHANNEL MENU is used in TV source, only.
You can complete channel search and settings here

Air/Cable
Press ◀ ▶ buttons to select Air or Cable.

Auto Scan
Press the ▶ button to enter the submenu list below

Auto Scan

Cable system
Press the ◀ ▶ button to select the cable system.

Start to Scan
Press the ▶ button to start auto scan.

Favorite

Favorite
From the Channel Menu, press the ▼▲ buttons to select Favorite. Press the ▶ button to enter the submenu shown at left.

Press ▼▲ keys to select channels, and press OK to add current channel to Favorite Channel Table.

Follow the same directions to delete a channel from the Favorite Channel Table.

Show/Hide Menu

Show/Hide
From the Channel Menu, press the ▼▲ buttons to select Show/Hide. Press the ▶ button to enter the submenu (shown left).

Press ▼▲ keys to your desired channel. Press OK to show or hide the specified channel.

If the channel is Hidden, user will be unable to see the channel by pressing CH+ or CH-. They can select the channel by pressing the channel number directly.

Channel Menu

From the Channel Menu, press the ▼▲ buttons to select the following functions:

Channel No.
Press the ◀ ▶ button to select the channel No.

Channel Label
Press the ▶ button to enter the submenu, where you can edit the channel label.

DTV Signal
This item shows current DTV signal strength.

Trouble Shooting

The following table contains the common problems and the solutions to these problems. Please check this list before you contact the technicians.

Problems	Solutions
NO PICTURE	Connect power cord correctly.
	Turn on power.
	Connect video cable correctly.
	Select the input signal source with proper cable connection with the source button. Unplug TV for at least one hour to perform hard reset.
ABNORMAL COLORS	Match the colors on the cables to the ports off the back of the television. I.E. red cable to red colored port.
PICTURE IS TOO DARK	Adjust your contrast, brightness and lamp settings from the OSD Menu.
AUDIO ONLY NO PICTURE	Make sure you have connected both your video and audio cables.
	The TV's tuner signal must not be lower than 65 %.
PICTURE ONLY NO AUDIO	Make sure the audio cable is connected.
	Readjust your volume via the remote control.
	The TV's tuner signal must not be lower than 65 %.
REMOTE CONTROL DOES NOT WORK	Turn off the TV, unplug it from the socket. Remove the batteries out of the remote for 30 minutes. Press the remote buttons and the power button randomly for a good 2 seconds, and then reinstall the batteries. Try the remote to see if it works.
	The TV's remote sensor is also housed in the same place as the power indicator light. Please make sure there is line of sight from the remote control's front sensor to the remote sensor of the TV.
CANNOT RECEIVE SUFFICIENT CHANNELS THROUGH THE ATSC/NTSC TUNER	The TV's tuner signal must not be lower than 65 %. Change the direction of your antenna and rescan your channels. If you have cable call up your cable company and ask about signal strength of your local cable.
NO COLOR	Please adjust your picture setup and make sure the saturation and the RGB are not turned all the way down.
	The TV's tuner signal must not be lower than 65 %. Check your signal.
WEAK SIGNAL OR NO PROGRAM SYMBOL ON SCREEN	The TV's tuner signal must not be lower than 65 %. Change the direction of your antenna and rescan your channels. If you have cable call up your cable company and ask about signal strength of your local cable.
TV'S UNIVERSAL REMOTE CODE	**This television follows SONY's universal remote code. To find the actual code you must read through your own universal remote's guide book.**

Problems	Solutions
TV CHANNELS ARE BLOCKED	Check your auto lock function's settings inside the OSD. You may have locked up some channels but forgot about them.
UNIVERSAL REMOTE CODE	This TV follows SONY's universal remote code. Please check your hand book for SONY's codes then apply them.
THE TV TURNS ON OR OFF SLOWLY AND THE SCREEN SHOWS UP SLOWLY	This TV is a High Definition liquid crystal display panel TV. It requires a few more seconds than normal TVs to power up and show the picture.
NO SOUND ON PC	Make sure you have a 3.5 mm mini-jack cable connected from your pc's sound output to the TV's VGA STEREO INPUT.
HDCP VIDEO SAYS NO HDCP SUPPORT	Reboot your HDCP video device but turning them off and unplugging the power cord. Wait up to 8 minutes to plug the power back in to see if it works or not.
HDCP VIDEO HAS NO AUDIO	Make sure you have a 3.5 mm mini-jack cable connected from your HDCP video device's sound output to the TV's VGA STEREO INPUT. If your HDCP video device uses RCA AUDIO jacks, you'll need to obtain a RCA audio converted into 3.5 mm mini-jack cable.
CANNOT GET 1366X768 ON PC VGA	Although the screen's max resolution is 1366x768, no video card maker can support such resolution. The industry standard for similar resolution support is 1360x768. Please use that as you resolution.
PICTURE IS DISTORTED OR HAS ABNORMAL SOUND	This might be from interference from large electrical appliances, cars, motorcycles, or fluorescent lights. If the TV is close to the wall, try moving the TV to another room in your house to see if the problem still occurs.
PICTURE DOES NOT COVER THE ENTIRE SCREEN	If you're using HDMI or a TV digital channel make sure you use the ASPECT button to switch to 16:9 format. If you are using VGA, use the AUTO ADJUST function to adjust to the screen. Please Note : If you are using regular analog TV, AV, or component in 480i resolution, use the ASPECT button to switch to 16:9 in order to fill up the screen. Please Note : This note this feature will distort the picture.
PICTURE QUALITY IS HORRIBLE!!	For best image quality, view HD widescreen programs where possible. If HD content is not available view "Standard Definition" from a digital source. Standard, analog TV will always be noticeable inferior to HD because your HDTV has video that is many times better than old TV's and so you can see interference and deficiencies you did not KNOW you had.
PICTURE HAS PIXELS THAT ARE ALWAYS DISPLAYING THE SAME COLOR	Your TV is manufactured using an extremely high level of precision technology, however, sometimes some pixels of your TV may not display. Pixels defects within industry specifications are inherent to this type of product and do not constitute a defective product.

Problems	Solutions
SWITCHING A CHANNEL OR SOURCE CHANGES THE VOLUME	Different channels and inputs will sometimes have this effect because the channel signal's own volume is already loud. There is no way remove this completely. The TV has an AUTO VOLUME LEVEL function that can combat this type of effect. Please make sure that function is turned on.
THERE IS NOISE OR TRASH PIXELS ON THE SCREEN	When your LCD HDTV's resolution is higher than the digital channel's broadcast resolution, the signal is up-converted to match your TV's resolution. Up-converting can cause this type of effect.
TIPS FOR HIGH DEFINITION USERS	The TV is an ideal platform for viewing High Definition Content. The best image quality can be achieved by HDMI, YPbPr (Component), then VGA. However, due to variances in broadcast practices, it is possible some image distortions can occur.
TIPS FOR LETTERBOX CONTENT USERS	Letterboxed (Widescreen) versions of DVD movies are most commonly formatted for standard 4:3 TVs. The TV has the capability of expanding this content so the entire screen is filled at the expense of the image proportion. To use this function press the aspect button on the remote control and cycle among the available options.
I CANNOT FIND THE VOLUME AND CHANNEL CHANGING BUTTONS	The buttons are represented by the ▲▼◄► buttons located on the remote control. ▲▼ changes the channels and ◄► changes the volume
I CANNOT FIND ENTER BUTTON	The enter button has the symbol ⏎. It is located in the center of the ▲▼◄► buttons.
TV TURNS OFF AUTOMATICALLY AFTER 5 MINUTES	The TV features a power saving mode which will automatically turn off the TV, if there's no signal provided for more than 5 minutes.

Caring for the LCD Panel:

1. Cleaning the LCD Panel:

Gently wipe the surface of the display panel with a soft cloth (cotton or flannel is best). Be sure the cloth is clean and does not contain liquid cleaners or other chemicals.

If the LCD panel is very dirty, use a soft damp (with water only) cloth to gently clean the panel.

2. When the TV is not in use, keep it covered with the SunBriteTV Outdoor Dust Cover

The fitted dust cover is designed to protect the LCD panel from the harmful UV rays from direct sunlight, and keeps wind-blown objects from scratching the surface of the panel.

To order a replacement Dust Cover, contact your Authorized SunBriteTV dealer or SunBriteTV's Customer Care Center at 800.331.4626.

General Cleaning

Remove any dirt and salt deposits from the cabinet, being careful to rinse the cloth frequently to avoid scratching the TV or screen surface. Avoid using harsh chemicals, abrasives, or solvents when cleaning any surface on the unit.

Snow and Ice

Use a soft brush and towel to remove snow and ice from the unit.

Fiber Filter- The Fiber Filters are located on the back of the TV, inside the Intake Vent at the top of the TV (Figure 1). Check the Fiber Filters periodically to ensure they are free of dust and debris. Follow the procedures below to clean the filters:

CAUTION! NEVER SPRAY OR DIRECT A HOSE INTO THE VENT OPENING OF THE TV.

1. To clean the Fiber Filter, unscrew the Filter Holder (Figure 2), and lift the Filter Holder out of the TV (Figure 3).
2. Pull the Fiber Filter out of the Filter Holder (Figure 4).
3. Clean by removing the filter and washing with warm soapy water. Allow to completely air dry overnight prior to reinstalling. (Do not compress or squeeze filter as it will break down it's cellular structure.)

To Order Replacement Filters, contact your Authorized SunBriteTV Dealer or SunBriteTV's Customer Care Center at 800.331.4626.

4. Put the Fiber Filter back up into the Filter Holder and place the Filter Holder back into the TV. Screw securely.

Figure 1

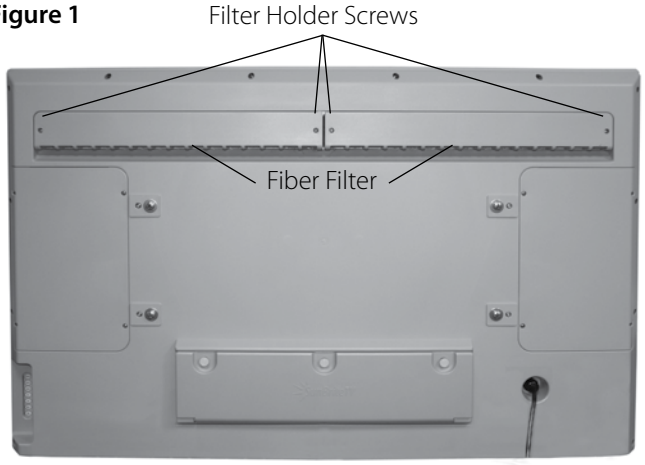
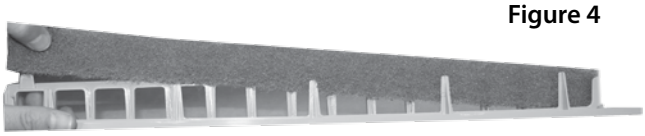


Figure 2

Figure 3

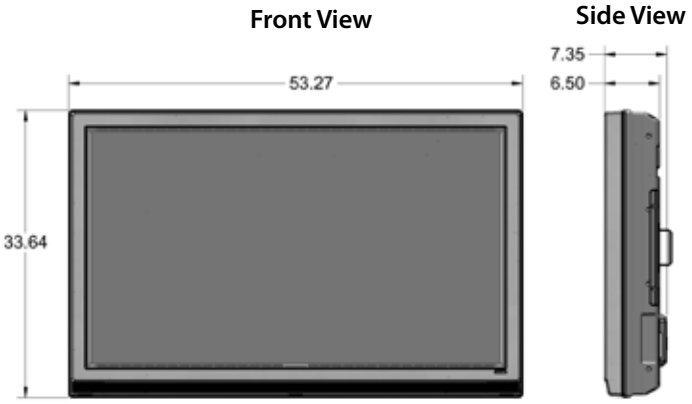
Figure 4



Specifications for SunBriteTV Model 5560HD

LCD Screen	55-inch Diagonal TFT Active Matrix
Resolution	1920 x 1080 full-HD 1080p
Aspect Ratio	16:9
Contrast Ratio	5000:1
Frame Rate	120 Hz
Viewing Angle	176º x 176º
Response Time	6.5 milliseconds
TV formats	1080p, 1080i, 720p, 480p, 480i
Anti-Reflective Window	Not Applicable
Input Connectors:	
RF	Antenna/CATV (ATSC/QAM/NTSC) x1
HDMI	HDMI™ Input x2
Video Composite	S-Video x1 and Composite Video x1, L/R Audio Inputs x1
Video Component	YPbPr plus Stereo Audio x2
PC	15-pin D-sub VGA plus Stereo Audio
Control Set	RS232 Serial, Discrete IR (Sony TV IR Code Set), Concealed IR Window
Audio Out	Digital SPDIF Audio (fixed), Analog 1/8" Headphone Jack (variable)
Speakers	20-Watt Built-in Speakers
Exterior	Outdoor-rated ASA Plastic Resin
Input Power	100-240 VAC, 50-60 Hz 4.0 A Max
Operating Temp.	-24º to 122º F. (-31º to 50º C.) *
Non-op. Temp.	-24º to 140º F. (-31º to 60º C.) The non-operating temperature feature requires power to be applied
Heater Board	Not Applicable
Accessories Included	Weather-Proof Remote Control, outdoor dust cover
TV Dimensions	53.27" W x 33.64 " H x 7.35" D
Shipping Dimensions	60" W x 46" H x 13" D
Weight	109.0 lbs.
Shipping Weight	129.0 lbs.
Residential Warranty	Two-year in-factory, parts and labor
Commercial Warranty	One-year parts and labor

Specifications are subject to change.



All measurements are in inches

*Temperature range is for operation in shaded location.

The TV should be installed in a shaded area where the screen is not facing direct sunlight (or placed/mounted where the TV can easily be turned away from direct sunlight).

Extreme Climate Warning

If temperatures below -24^{O} F. are expected, we recommend that you bring your SunBriteTV inside to prevent damage to the LCD screen.

Programming Other Manufacturers' Universal Remote Control Devices

When programming a DirectTV, local cable universal remote control or Control system, you may find that SunBriteTV may not be on the list of TV manufacturers. If that is the case, Model 5560HD supports SONY's universal remote code. Direct TV is 10000.

SunBriteTV Pixel Quality Policy

SunBriteTV's Pixel Quality Policy
(Applicable to LCD TVs sold within USA and Canada only.)

SunBriteTV LCD screens are manufactured with rigorous standards to maintain optimal viewing. However, the LCD screen may have minor defects that appear as a small bright or dark pixel. This is common to all LCD screens used in display and television products, and is not specific to SunBriteTV.

Bright dots are dots that appear bright and unchanged in size when a LCD TV screen displays a black pattern.

Dark dots are dots that appear dark and unchanged in size when a LCD TV screen displays a pure red, green, or blue pattern.

Adjacent dots are pixels located directly next to each other.

Your SunBriteTV will be replaced under warranty if it meets one of the following criteria:

—A total of 7 defective pixels, including both bright dots and dark dots are present. (This TV screen has over a million pixels.)

—2 or more pairs of adjacent bright dots are present.

—3 adjacent bright dots are present.

—3 adjacent dark dots are present.

To locate defective pixels, the LCD panel should be examined under normal operating conditions, in its native display resolution, with a 90 degree viewing angle, from a distance of a approximately 20 inches.

To qualify for replacement, a defective LCD screen must be reported to SunBriteTV within 60 days from the day the customer receives the TV.

For questions, please call our Customer Care Center at 800.331.4626.

SunBriteTV Dust Cover

The SunBriteTV Dust Cover is constructed with weatherproof nylon ripstop UV protection fabric to help keep your all-weather outdoor television clean, protect the finish, and ensure years of maximum enjoyment. Tighten both pull cords to secure the cover in place.

We recommend that you keep your TV covered when not in use.

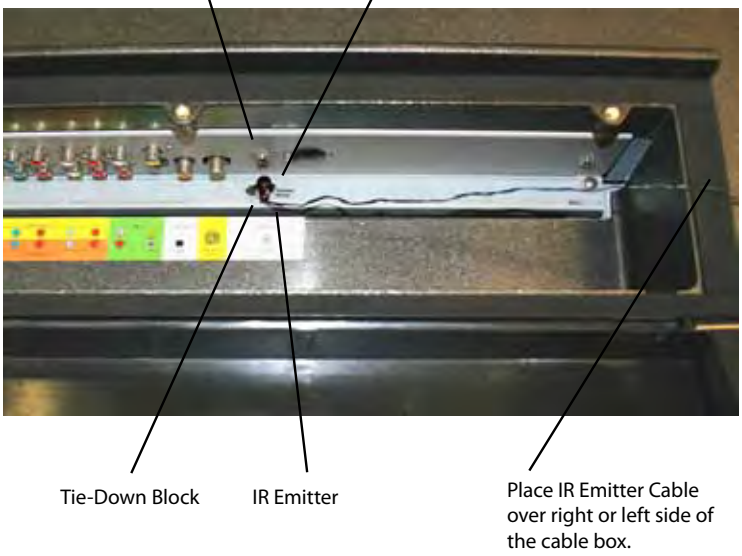
To install the IR Emitter:
The photo to the right shows an IR Emitter* installed.

The end of the Emitter is to be mounted in front of the IR Emitter Window.

Place the emitter on the white tie-down block and use the tie-down to secure it in place.

Place the emitter cable over the right or left side of the cable box and connect the other end of the emitter to the appropriate control block*.

** Neither the emitter or control block are supplied by SunBriteTV. See instructions that come with your IR Emitter and control block to determine how to make the connections.*

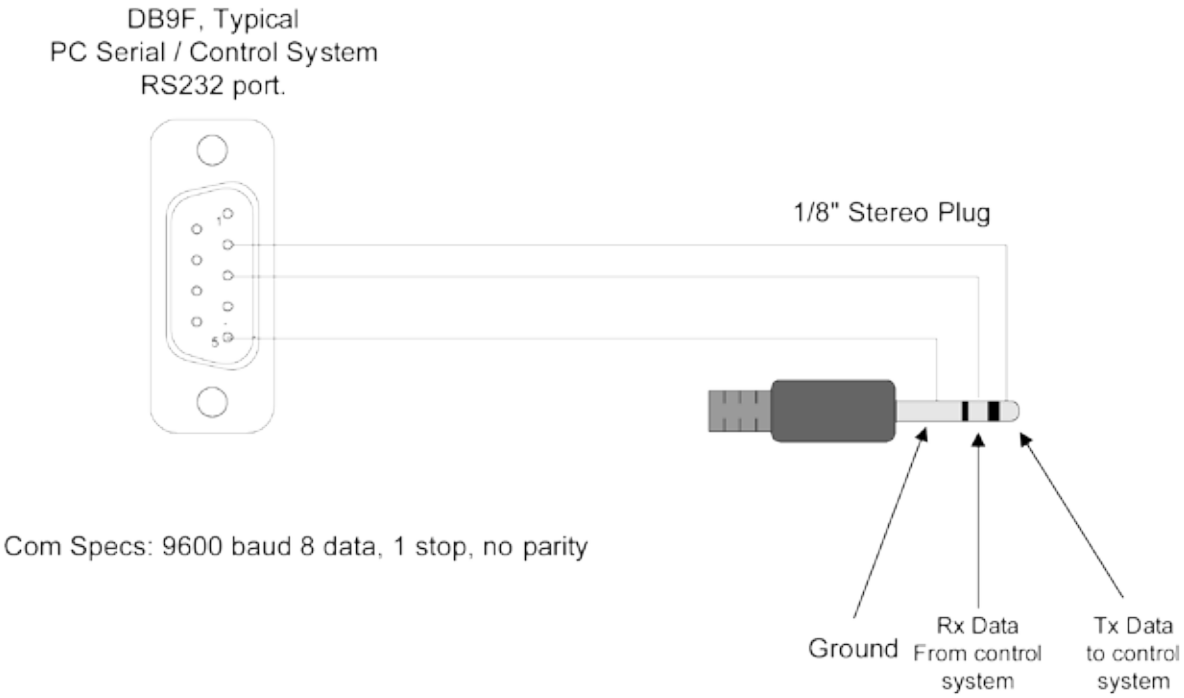


Appendix A - RS232 Control Codes

RS 232 Control codes SunbriteTV

Com Spec: 9600,8,1,n

Function	ASCII	HEX	Command Received Response from TV to control system	Command Executed Response from TV to control system
Model Class ID	[ESC]?	1B 3F	[B3220AHD-X.XX] or [B4610AHD-X.XX]	na
Power Status	[ESC]!	1B 21	**[PWRON]** **[PWROFF]**	na
Power Toggle	[ESC]$	1B 24	[$]	[PWR]
Power ON	[ESC]A	1B 41	[A]	[PWRON]
Power OFF	[ESC]B	1B 42	[B]	[PWROFF]
Tuner Input	[ESC]C	1B 43	[C]	[TN1]
Composite Video Input 1	[ESC]D	1B 44	[D]	[AV1(CVBS)]
S-Video Input 1	[ESC]E	1B 45	[E]	[AV1(S-VIDEO)]
Composite Video Input 2	[ESC]F	1B 46	[F]	[AV2(CVBS)]
S-Video Input 2	[ESC]G	1B 47	[G]	[AV2(S-VIDEO)]
Component1 Input	[ESC]H	1B 48	[H]	[YpbPr1]
Component2 Input	[ESC]I	1B 49	[I]	[YpbPr2]
HDMI Input 1	[ESC]J	1B 4A	[J]	[HDMI1]
VGA Input	[ESC]K	1B 4B	[K]	[VGA]
HDMI Input 2	[ESC]L	1B 4C	[L]	[HDMI2]
Mute	[ESC]X	1B 58	[X]	[MUTE]
Vol Up	[ESC]Y	1B 59	[Y]	[VOL+]
Vol Down	[ESC]Z	1B 5A	[Z]	[VOL-]
Channel Up	[ESC]V	1B 56	[V]	[CH+]
Channel Down	[ESC]W	1B 57	[W]	[CH-]
1	[ESC]1	1B 31	[1]	na
2	[ESC]2	1B 32	[2]	na
3	[ESC]3	1B 33	[3]	na
4	[ESC]4	1B 34	[4]	na
5	[ESC]5	1B 35	[5]	na
6	[ESC]6	1B 36	[6]	na
7	[ESC]7	1B 37	[7]	na
8	[ESC]8	1B 38	[8]	na
9	[ESC]9	1B 39	[9]	na
0	[ESC]0	1B 30	[0]	na
-	[ESC]-	1B 2D	[-]	na
Channel Return(Previous Channel)	[ESC]r	1B 72	[r]	na
Source Toggle	[ESC]b	1B 62	[SRC]	na
Aspect	[ESC]a	1B 61	[ASPECT]	na
Enter	[ESC]e	1B 65	[ENTER]	na
Info	[ESC]i	1B 69	[INFO]	na
CC	[ESC]c	1B 63	[CC]	na
Sleep	[ESC]z	1B 7A	[SLEEP]	na
Picture	[ESC]p	1B 70	[PICT]	na
Sound	[ESC]s	1B 73	[SND]	na


DB9F, Typical
PC Serial / Control System
RS232 port.
1/8" Stereo Plug
Com Specs: 9600 baud 8 data, 1 stop, no parity
Ground
Rx Data
From control
system
Tx Data
to control
system

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SunBriteTV®

www.sunbritetv.com